

# SAP Business Intelligence Reporting

# BEX Ad Hoc Query Fundamentals - Part II

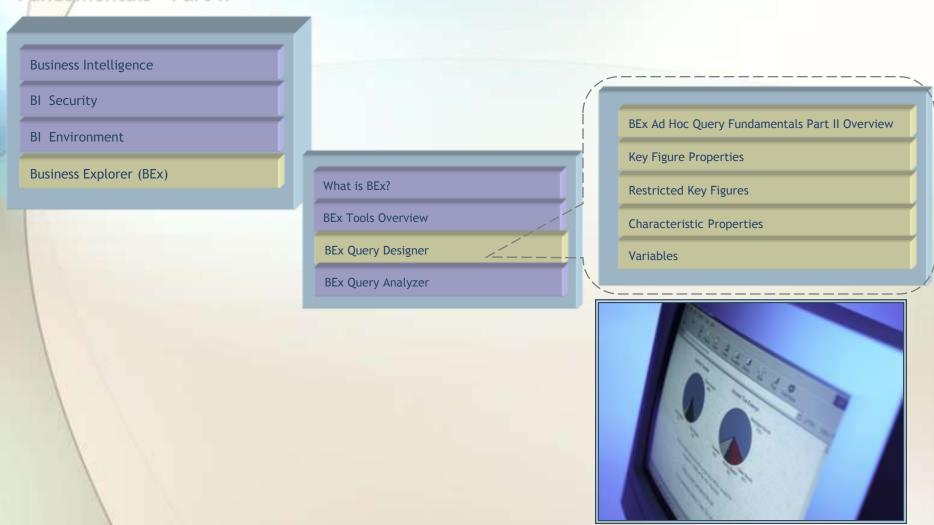
Washington State HRMS Business Intelligence (BI)
BI Power User Workshop Materials

General Topics - BI Power Users



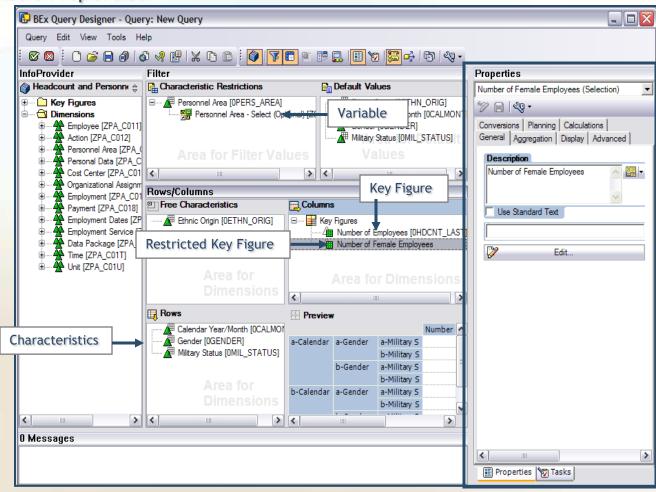
# BEx Ad Hoc Query Fundamentals - Part II

The following BEx Ad Hoc Query Fundamentals - Part II section provides an overview of BEx Ad Hoc Query Fundamentals and builds on the key terms and concepts covered in BEx Query Fundamentals - Part I.



BEx Ad Hoc Query Fundamentals - Part II contains the following key terms and concepts:

- Key Figure Properties
- Restricted Key Figures
- Characteristic Properties
- Variables

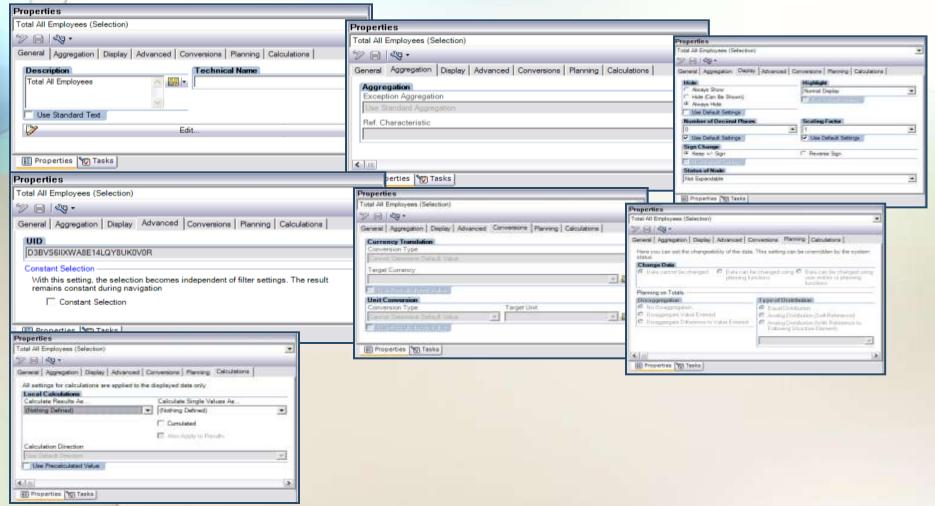




#### BEx Ad Hoc Query Fundamentals - Part II Overview

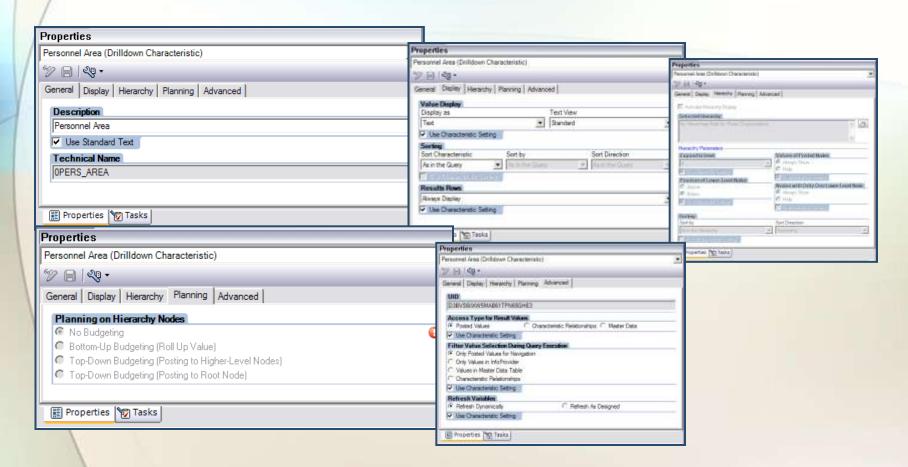
BEx Ad Hoc Query Fundamentals - Part II contains the following key terms and concepts:

- Key Figure Properties
- Key Figure Properties are settings that format the key figure values when they are displayed in the ad hoc query results.



BEx Ad Hoc Query Fundamentals - Part II contains the following key terms and concepts:

- Characteristic Properties
- Characteristic Properties format the Characteristics when they are displayed in the ad hoc query results.



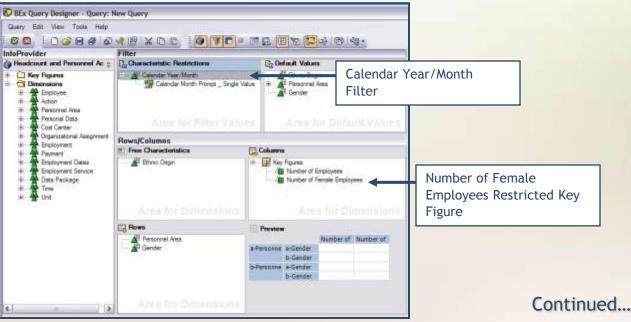


## Restricted Key Figures

Restricted Key Figures are Key Figures that are filtered by one or more Characteristics. For example, the Number of Employees Key Figure can be restricted by the Gender Characteristic to include Female employees only.

#### Restricted Key Figures are different than Filters:

- Restricted Key Figures restrict for the Key Figure value only In the sample below, the "Number of Female Employees" Restricted Key Figure will display the number of female employees by Personnel Area and Gender.
- Filters restrict for the entire query
  In the sample below, the "Calendar Year/Month" Filter will display the number of Employees and Number of Female Employees by Personnel Area and Gender as of the date input by the user. If the user selects 7/2005 as the Calendar Year/Month value, the query results will be filtered to 7/2005.

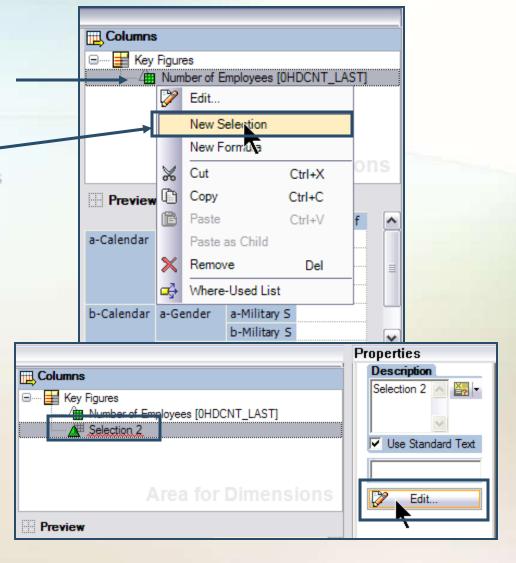




The example below shows how to create a Restricted Key Figure that will display the number of female employees only:

- Drag&Drop the Number of Employees
  Key Figure to the Columns section
  of the guery.
- Right mouse-click the Number of Employees Key Figures in the Columns section and select New Selection.

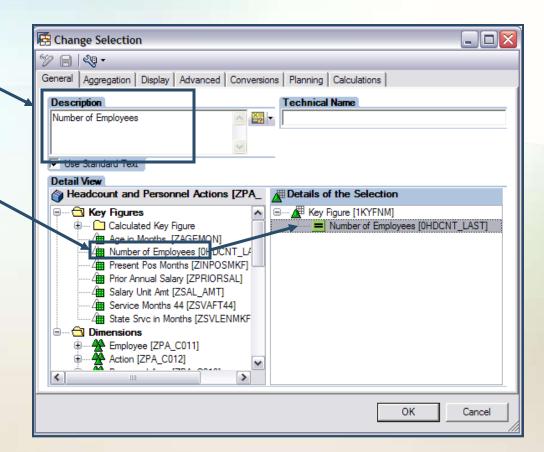
3. Highlight the "Selection" that has been added under the Key Figures heading. In the Properties section, click "Edit"





Result: The New Selection screen will open to assign the restricted key figure.

- 3. Enter the name of the Restricted Key Figure (Number of Female Employees) in the Description text box of the New Selection screen.
- Drag&Drop the Number of Employees
   Key Figure from the Key Figures
   folder to the Description section of
   the query.



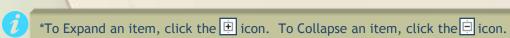


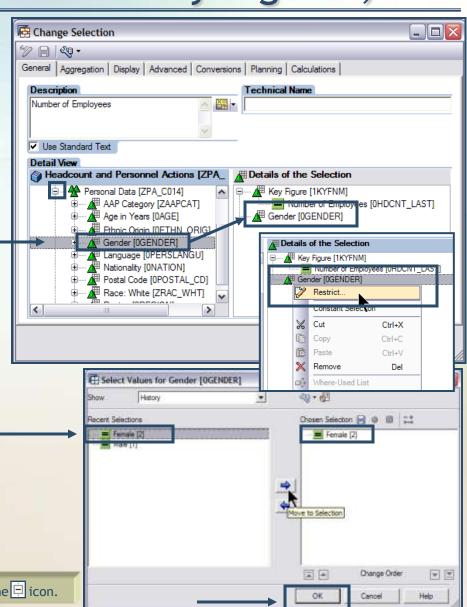
- \*Expand the Personal Data Dimension.
- Drag&Drop the Gender characteristic to the Description column.

7. Right mouse-click the Gender Characteristic and select Restrict from the Context Menu.

Result: The Selection for Gender screen will display.

- 8. Drag&Drop "Female" from the Description column to the Selection column of the Selection for Gender screen.
- 9. Click OK.





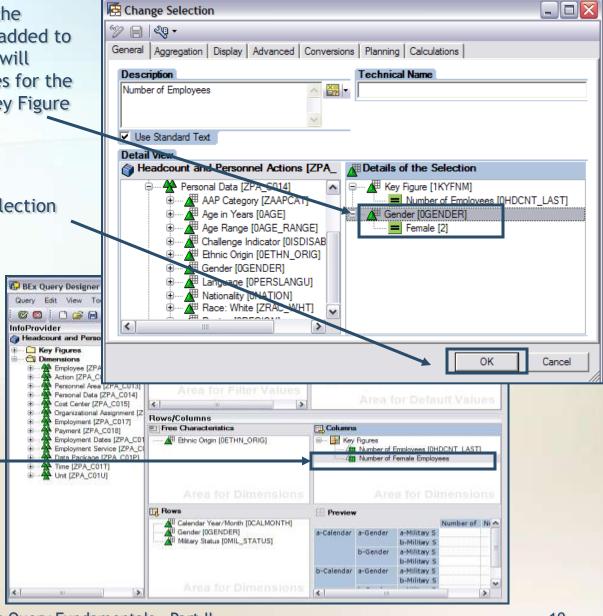
Continued...



Result: The "Female" value of the Gender Characteristic has been added to the Key Figure restriction. This will restrict the number of employees for the Number of Female Employees Key Figure to female employees only.

Click OK to exit the New Selection screen.

Result: A Restricted Key Figure has been created that restricts the number of employees to females employees only.





## Characteristic Properties

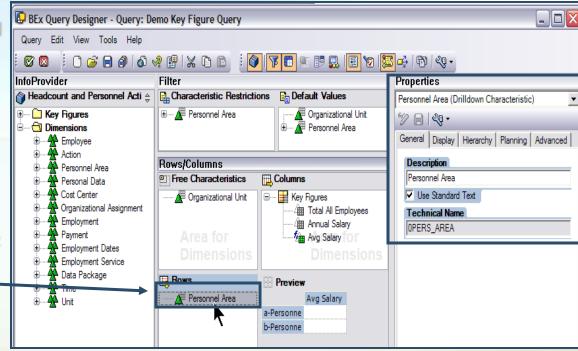
Characteristic Properties format the Characteristics when they are displayed in the ad hoc query results.

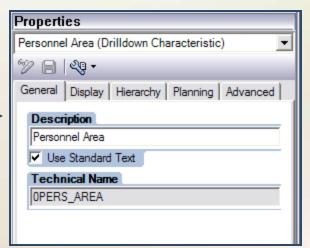
The example uses the Headcount and Personnel Actions InfoProvider to show how to access the Properties of the Personnel Area Characteristic in the query.

To access the Characteristic properties:

- If necessary, Drag&Drop the \_ Personnel Area Characteristic to the Rows section of the query.
- Select the Personnel Area Characteristic.

Result: The Properties for the Personnel Area are displayed in the Properties pane.

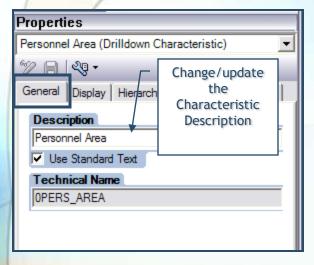


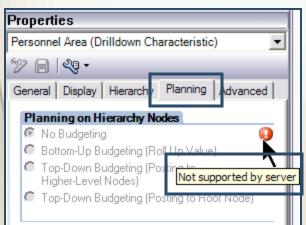


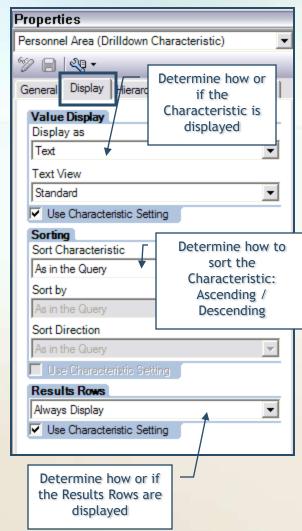


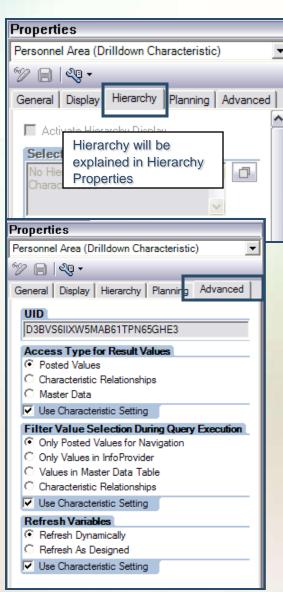
### Characteristic Properties, cont...

The example below provides a brief description of Characteristic Properties:









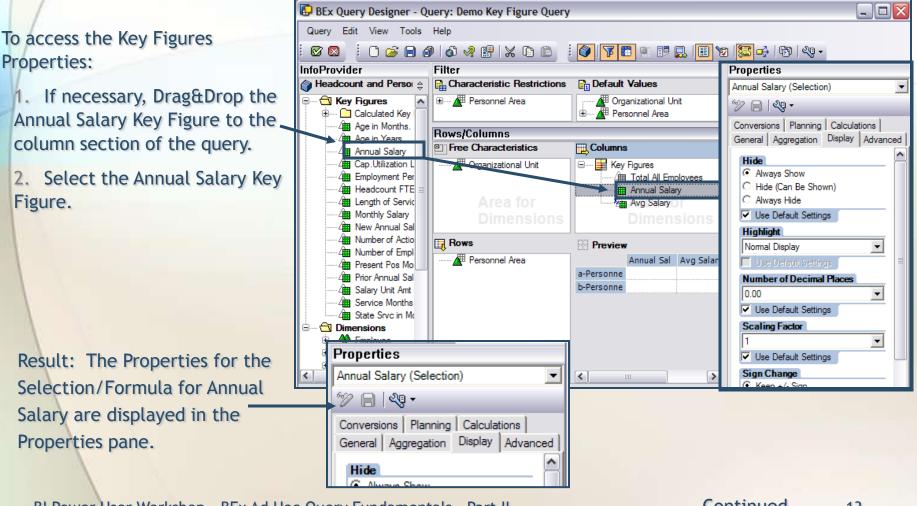


# **Key Figure Properties**

Key Figure Properties are settings that format the Key Figure values when they are displayed in the ad hoc query results.

The example uses the Headcount and Personnel Actions InfoProvider to show how to access the Properties of

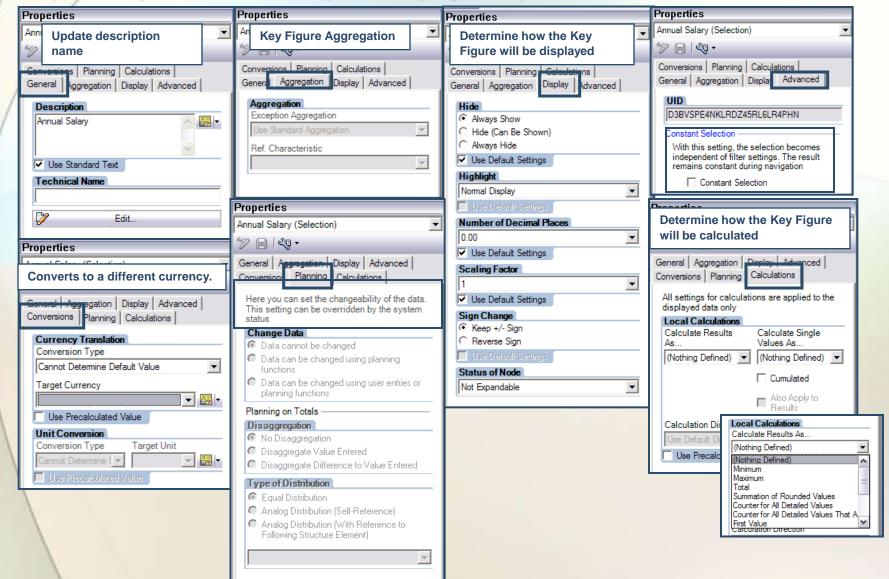
the Annual Salary Key Figure in the query.





### Key Figure Properties, cont...

The example below provides a brief description of Key Figure Properties:

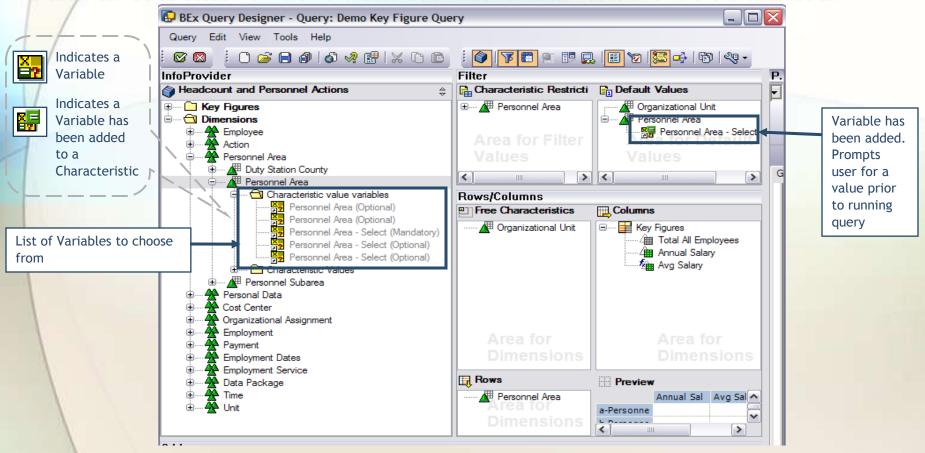




#### **Variables**

Variables prompt the user to enter selection criteria values prior to running the ad hoc query. For example, a Variable might be a Personnel Area, Employee Number or Date.

Variables can be selected from the "Characteristic Value Variables" section of the Characteristics.



Variables can be created by BI Production Support Staff only. Variables have been created for BI by the BI Production Support Staff and are available to the BI Power Users for ad hoc queries.

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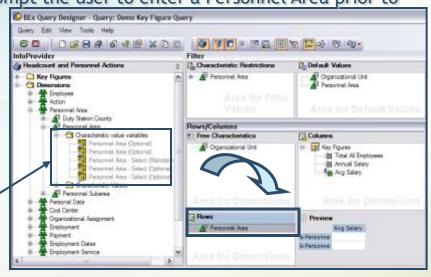
#### Variables, cont...

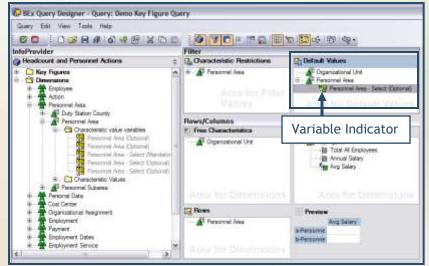
The example below uses the Headcount and Personnel Action InfoProvider to show how to add a Variable to the Personnel Area Characteristic. The Variable will prompt the user to enter a Personnel Area prior to

running the query.

To add a Variable to an ad hoc query:

- Drag&Drop the Personnel Area Characteristic to the Rows section of the ad hoc query.
- Expand the Personnel Area Characteristic in the InfoProvider Field List.
- 3. Expand the Characteristic Value Variables for the Personnel Area Characteristic in the InfoProvider Field List.
- 4. Drag&Drop the Personnel Area (Optional)
  Variable located under the Characteristic
  Value Variables of the Characteristic on
  top of the Personnel Area Characteristic in
  the "Default Values" section of the query.





Continued...



#### Variables, cont...

Result: When the ad hoc query is executed, the user will be prompted to enter a Personnel Area.

